

WHAT IS CLAIMED IS:

1. An electrode structure for electrical components in which ions migrate between electrodes, wherein a powdered electrode active substance or a powdered large surface material coated by an ion-conducting polymer, is made to adhere to a current-collecting member.

2. An electrode structure as defined in Claim 1, wherein a powdered electrically-conducting substance or a powdered large surface material is mixed with the powdered electrode active substance coated by the ion-conducting polymer and made to adhere to the current-collecting member.

3. A secondary cell comprising:

a positive electrode structure and a negative electrode structure comprising a current-collecting member to which a powdered electrode active substance coated by an ion-conducting polymer is made to adhere, and

an ion-conducting substance disposed between the positive electrode structure and the negative electrode structure.

4. A secondary cell as defined in Claim 3, wherein:

the ion-conducting substance is an ion-conducting polymer.

5. A secondary cell as defined in Claim 3, wherein:

the ion-conducting substance is an electrolyte, and a separator is

disposed in this electrolyte.

6. A method of manufacturing an electrode structure for electrical components in which ions migrate between electrodes, wherein the electrode structure is formed by press-sliding a mixture of at least an ion-conducting polymer or ion-conducting polymer raw material with a powdered electrode active substance or a powdered large surface material so as to coat the powdered electrode active substance with the ion-conducting polymer, and applying the product to a current-collecting member.

7. A method of manufacturing an electrode structure as defined in Claim 6, wherein:

the electrode structure is manufactured by press-sliding a mixture and a solvent to make a paste.

8. A method of manufacturing a secondary cell wherein ions migrate between electrodes, wherein:

an ion-conducting substance is disposed between a positive electrode structure and a negative electrode structure formed by press-sliding at least a mixture of an ion-conducting polymer and a powdered electrode active substance so as to coat the powdered electrode active substance with the ion-conducting polymer, and applying the product to a current-collecting member.

9. A method of manufacturing a secondary cell as defined in Claim 8, wherein:

the ion-conducting substance is an ion-conducting polymer.

10. A method of manufacturing a secondary cell as defined in Claim 8, wherein:

the ion-conducting substance is an electrolyte, and a separator is disposed in this electrolyte.

11. An electric double layer capacitor comprising an electrode structure where a powdered large surface material coated by an ion-conducting polymer is made to adhere to a current-collecting member and an ion-conducting substance disposed between electrodes.

12. An electric double layer capacitor as defined in Claim 11, wherein:

said ion-conducting substance is an electrolyte, and a separator is positioned in said electrolyte.

13. An electric double layer capacitor as defined in claim 11, wherein:

said ion-conducting substance is an ion-conducting polymer.